

WHAT IS CLAIMED IS:

1. Isolated nucleic acid having at least 80% nucleic acid sequence identity to a nucleotide sequence that encodes an amino acid sequence selected from the group consisting of the amino acid sequence shown in Figure 2 (SEQ ID NO:2), Figure 4 (SEQ ID NO:7), Figure 6 (SEQ ID NO:15), Figure 10 (SEQ ID NO:24), Figure 14 (SEQ ID NO:32), Figure 16 (SEQ ID NO:37), Figure 18 (SEQ ID NO:42), Figure 20 (SEQ ID NO:50), Figure 22 (SEQ ID NO:55), Figure 24 (SEQ ID NO:61), Figure 26 (SEQ ID NO:69), Figure 28 (SEQ ID NO:76), Figure 30 (SEQ ID NO:78), Figure 32 (SEQ ID NO:83) and Figure 34 (SEQ ID NO:91).

2. Isolated nucleic acid having at least 80% nucleic acid sequence identity to a nucleotide sequence selected from the group consisting of the nucleotide sequence shown in Figure 1 (SEQ ID NO:1), Figure 3 (SEQ ID NO:6), Figure 5 (SEQ ID NO:14), Figure 9 (SEQ ID NO:23), Figure 13 (SEQ ID NO:31), Figure 15 (SEQ ID NO:36), Figure 17 (SEQ ID NO:41), Figure 19 (SEQ ID NO:49), Figure 21 (SEQ ID NO:54), Figure 23 (SEQ ID NO:60), Figure 25 (SEQ ID NO:68), Figure 27 (SEQ ID NO:75), Figure 29 (SEQ ID NO:77), Figure 31 (SEQ ID NO:82) and Figure 33 (SEQ ID NO:90).

3. Isolated nucleic acid having at least 80% nucleic acid sequence identity to a nucleotide sequence selected from the group consisting of the full-length coding sequence of the nucleotide sequence shown in Figure 1 (SEQ ID NO:1), Figure 3 (SEQ ID NO:6), Figure 5 (SEQ ID NO:14), Figure 9 (SEQ ID NO:23), Figure 13 (SEQ ID NO:31), Figure 15 (SEQ ID NO:36), Figure 17 (SEQ ID NO:41), Figure 19 (SEQ ID NO:49), Figure 21 (SEQ ID NO:54), Figure 23 (SEQ ID NO:60), Figure 25 (SEQ ID NO:68), Figure 27 (SEQ ID NO:75), Figure 29 (SEQ ID NO:77), Figure 31 (SEQ ID NO:82) and Figure 33 (SEQ ID NO:90).

4. Isolated nucleic acid having at least 80% nucleic acid sequence identity to the full-length coding sequence of the DNA deposited under ATCC accession number 209526, 209508, 209524, 209528, 209530, 209523, 209492, 209532, 209531, 209529, 209527, 209570, 209618, 209621 or 209619.

25 5. A vector comprising the nucleic acid of any one of Claims 1 to 4.

30 6. The vector of Claim 5 operably linked to control sequences recognized by a host cell transformed with the vector.

7. A host cell comprising the vector of Claim 5.

8. The host cell of Claim 7, wherein said cell is a CHO cell.

35 9. The host cell of Claim 7, wherein said cell is an *E. coli*.

10. The host cell of Claim 7, wherein said cell is a yeast cell.

11. A process for producing a PRO polypeptides comprising culturing the host cell of Claim 7 under conditions suitable for expression of said PRO polypeptide and recovering said PRO polypeptide from the cell culture.

12. An isolated polypeptide having at least 80% amino acid sequence identity to an amino acid sequence selected from the group consisting of the amino acid sequence shown in Figure 2 (SEQ ID NO:2), Figure 4 (SEQ ID NO:7), Figure 6 (SEQ ID NO:15), Figure 10 (SEQ ID NO:24), Figure 14 (SEQ ID NO:32), Figure 16 (SEQ ID NO:37), Figure 18 (SEQ ID NO:42), Figure 20 (SEQ ID NO:50), Figure 22 (SEQ ID NO:55), Figure 24 (SEQ ID NO:61), Figure 26 (SEQ ID NO:69), Figure 28 (SEQ ID NO:76), Figure 30 (SEQ ID NO:78), Figure 32 (SEQ ID NO:83) and Figure 34 (SEQ ID NO:91).

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13. An isolated polypeptide scoring at least 80% positives when compared to an amino acid sequence selected from the group consisting of the amino acid sequence shown in Figure 2 (SEQ ID NO:2), Figure 4 (SEQ ID NO:7), Figure 6 (SEQ ID NO:15), Figure 10 (SEQ ID NO:24), Figure 14 (SEQ ID NO:32), Figure 16 (SEQ ID NO:37), Figure 18 (SEQ ID NO:42), Figure 20 (SEQ ID NO:50), Figure 22 (SEQ ID NO:55), Figure 24 (SEQ ID NO:61), Figure 26 (SEQ ID NO:69), Figure 28 (SEQ ID NO:76), Figure 30 (SEQ ID NO:78), Figure 32 (SEQ ID NO:83) and Figure 34 (SEQ ID NO:91).

14. An isolated polypeptide having at least 80% amino acid sequence identity to an amino acid sequence encoded by the full-length coding sequence of the DNA deposited under ATCC accession number 209526, 209508, 209524, 209528, 209530, 209523, 209492, 209532, 209531, 209529, 209527, 209570, 209618, 209621 or 209619.

15. A chimeric molecule comprising a polypeptide according to any one of Claims 12 to 14 fused to a heterologous amino acid sequence.

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16. The chimeric molecule of Claim 15, wherein said heterologous amino acid sequence is an epitope tag sequence.

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17. The chimeric molecule of Claim 15, wherein said heterologous amino acid sequence is a Fc region of an immunoglobulin.

18. An antibody which specifically binds to a polypeptide according to any one of Claims 12 to 14.

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19. The antibody of Claim 18, wherein said antibody is a monoclonal antibody, a humanized antibody or a single-chain antibody.

20. Isolated nucleic acid having at least 80% nucleic acid sequence identity to:

(a) a nucleotide sequence encoding the polypeptide shown in Figure 2 (SEQ ID NO:2), Figure 4 (SEQ ID NO:7), Figure 6 (SEQ ID NO:15), Figure 10 (SEQ ID NO:24), Figure 14 (SEQ ID NO:32), Figure 16 (SEQ ID NO:37), Figure 18 (SEQ ID NO:42), Figure 20 (SEQ ID NO:50), Figure 22 (SEQ ID NO:55), Figure 24 (SEQ ID NO:61), Figure 26 (SEQ ID NO:69), Figure 28 (SEQ ID NO:76), Figure 30 (SEQ ID NO:78), Figure 32 (SEQ ID NO:83) or Figure 34 (SEQ ID NO:91), lacking its associated signal peptide;

(b) a nucleotide sequence encoding an extracellular domain of the polypeptide shown in Figure 2 (SEQ ID NO:2), Figure 4 (SEQ ID NO:7), Figure 6 (SEQ ID NO:15), Figure 10 (SEQ ID NO:24), Figure 14 (SEQ ID NO:32), Figure 16 (SEQ ID NO:37), Figure 18 (SEQ ID NO:42), Figure 20 (SEQ ID NO:50), Figure 22 (SEQ ID NO:55), Figure 24 (SEQ ID NO:61), Figure 26 (SEQ ID NO:69), Figure 28 (SEQ ID NO:76), Figure 30 (SEQ ID NO:78), Figure 32 (SEQ ID NO:83) or Figure 34 (SEQ ID NO:91), with its associated signal peptide; or

(c) a nucleotide sequence encoding an extracellular domain of the polypeptide shown in Figure 2 (SEQ ID NO:2), Figure 4 (SEQ ID NO:7), Figure 6 (SEQ ID NO:15), Figure 10 (SEQ ID NO:24), Figure 14 (SEQ ID NO:32), Figure 16 (SEQ ID NO:37), Figure 18 (SEQ ID NO:42), Figure 20 (SEQ ID NO:50), Figure 22 (SEQ ID NO:55), Figure 24 (SEQ ID NO:61), Figure 26 (SEQ ID NO:69), Figure 28 (SEQ ID NO:76), Figure 30 (SEQ ID NO:78), Figure 32 (SEQ ID NO:83) or Figure 34 (SEQ ID NO:91), lacking its associated signal peptide.

21. An isolated polypeptide having at least 80% amino acid sequence identity to:

(a) the polypeptide shown in Figure 2 (SEQ ID NO:2), Figure 4 (SEQ ID NO:7), Figure 6 (SEQ ID NO:15), Figure 10 (SEQ ID NO:24), Figure 14 (SEQ ID NO:32), Figure 16 (SEQ ID NO:37), Figure 18 (SEQ ID NO:42), Figure 20 (SEQ ID NO:50), Figure 22 (SEQ ID NO:55), Figure 24 (SEQ ID NO:61), Figure 26 (SEQ ID NO:69), Figure 28 (SEQ ID NO:76), Figure 30 (SEQ ID NO:78), Figure 32 (SEQ ID NO:83) or Figure 34 (SEQ ID NO:91), lacking its associated signal peptide;

(b) an extracellular domain of the polypeptide shown in Figure 2 (SEQ ID NO:2), Figure 4 (SEQ ID NO:7), Figure 6 (SEQ ID NO:15), Figure 10 (SEQ ID NO:24), Figure 14 (SEQ ID NO:32), Figure 16 (SEQ ID NO:37), Figure 18 (SEQ ID NO:42), Figure 20 (SEQ ID NO:50), Figure 22 (SEQ ID NO:55), Figure 24 (SEQ ID NO:61), Figure 26 (SEQ ID NO:69), Figure 28 (SEQ ID NO:76), Figure 30 (SEQ ID NO:78), Figure 32 (SEQ ID NO:83) or Figure 34 (SEQ ID NO:91), with its associated signal peptide; or

(c) an extracellular domain of the polypeptide shown in Figure 2 (SEQ ID NO:2), Figure 4 (SEQ ID NO:7), Figure 6 (SEQ ID NO:15), Figure 10 (SEQ ID NO:24), Figure 14 (SEQ ID NO:32), Figure 16 (SEQ ID NO:37), Figure 18 (SEQ ID NO:42), Figure 20 (SEQ ID NO:50), Figure 22 (SEQ ID NO:55), Figure 24 (SEQ ID NO:61), Figure 26 (SEQ ID NO:69), Figure 28 (SEQ ID NO:76), Figure 30 (SEQ ID NO:78), Figure 32 (SEQ ID NO:83) or Figure 34 (SEQ ID NO:91), lacking its associated signal peptide.

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